OTPE CO

FORM PTO-1449

PATENT AND THADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY, DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
APPLICANT DENG et al.	
FILING DATE	GROUP ART 1652

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
m	1	3,008,874	11/14/61	Feeney et al.	167	55	
	2	3,679,660	7/25/72	Magnus	260	211	
	3	3,683,076	8/8/72	Rovati	424	180	
	4	4,642,340	2/10/87	Senin et al.	536	55.2	
	5	5,246,840	9/21/93	Nilsson	435	101	
	6	5,731,184	3/24/98	Fujishima et al.	435	195	
	7	5,739,015	4/14/98	Srinivasan	435	101	
	8	5,744,325	4/28/98	Fujishima et al.	435	71.2	
	9	5,843,923	12/1/98	Schleck et al.	514	62	
	10	5,876,713	3/2/99	Nishi et al.	424	94.5	
	11	5,988,173	12/7/99	Haynes et al.	435	84	
	12	6,486,307	11/26/02	Gandhi et al.	536	20	
	13	6,531,303	3/11/03	Millis et al.	435	155	
	14	2003/0181419	9/25/03	Hwang et al.	514	62	
ori							

FOREIGN PATENT DOCUMENTS

						SUB CLASS	TRANSLATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS		YES	NO
m	15	WO 02/43653	6/6/02	PCT WIPO				
	16	WO 02/066667	8/29/02	per WIPO				, 7
	17	EP 0614972A2	9/14/94	EPO EPO				
	18	EP 0732400A2	9/18/96	EPO	<u> </u>			
m	19	1,056,331	1/25/67	UK				

		 		
EXAMINER	Tel	DATE CONSIDERED	7/31/06	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY. DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
APPLICANT DENG et al.	
FILING DATE July 1, 2003	GROUP ART 1652

an	20	JP9234064A2	9/9/97	Japan	Abstract	
DR	21	2141965	11/27/99	Russia	x	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

m	22	Araki et al., 1975, <i>Eur. J. Biochem.</i> , 55, 71-78
	23	Bachmann 1987 , Escherichia coli and Salmonella typhimurium cellular and molecular biology Mutant Derivatives of E. coli, Vol 2:pp 1190-1219, 1987.
	24	Badet et al., 1987, Biochemistry (Mosc). 26, 1940-1948
	25	Balbas et al., 1996, <i>Gene</i> , 172 , 65-69
	26	Bearne, 1996, J. Biol. Chem., 271, 3052-3057
	27	Bernheim et al., 1970, <i>J. Bacteriol.</i> , 101, 384-391
	28	Blattner et al., 1997, Science, 277, 1453-1474
	29	Bouffard et al., 1994, J. Mol. Biol., 244, 269-278
	30	Brown et al., 1989, Biochemical Society Transaction, 18, 317-318
	31	Chen et al., 1998, J. Agric. Food Chem., 46, 1971-1974
	32	Chen et al., 1998, J. Agric. Food Chem., 46, 3207-3209
	33	Chen et al., 1987, Molecular General Genetics, 210, 331-337
	34	Cochet et al., 1995, Archives of Biochemistry & Biophysics, 324, 391-400
	35	Curtis et al., 1975, <i>J. Bacteriol.</i> , 122, 1189-1199
	36	Daniels et al., 1993, <i>Mol. Endocrinol.,</i> 7, 1041-1048
	37	Denisot et al., 1991, Arch. Biochem. Biophys., 288, 225-230
	38	Domard et al., 1991, Int. J. Biol. Macromol., 13, 105-109
	39	Dutka-Malen et al., 1988, Biochimie, 70, 287-290
	40	Elliot et al., 1975, Biochem. Biophys. Res. Commun., 64, 277 - 281
	41	Fawcett et al., 1995, J. Bacteriol., 177, 1742-1750
	42	Fernandez-Herrero et al., 1995, Mol. Microbiol., 17, 1-12
m	43	Flores et al., 1996, Nat. Biotechnol., 14, 620-623

EXAMINER	FS	DATE CONSIDERED	7/31/0	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY. DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
APPLICANT DENG et al.	
FILING DATE July 1, 2003	GROUP ART (652

784	44	5
0.0	44	Freese et al., 1970, J. Bacteriol., 101, 1046-1062
	45	Glaser et al., 1955, <i>J. Biol. Chem.</i> , 216, 67-79
	46	Golinelli-Pimpaneau et al., 1991, Eur. J. Biochem., 201, 175-182
	47	Holmes et al., 1972, J. Bacteriol., 111, 290-291
	48	Horlacher et al., 1997, J. Biol. Chem., 272, 13026-13032
	49	Isaeva et al., 1987, Izvestiya Akademii Nauk SSR, 4, 937-939
	50	Jones-Mortimer et al., 1980, J. Gen. Microbiol., 117, 369-376
	51	Joyce et al., 1984, J. Bacteriol., 158, 636-643
	52	Kashige et al., 1994, Carboyhdrate Research, 257, 285-291
	53	Kauss et al., 1988, Methods Enzymol., 161, 518-523
	54	Kimata et al., 1997, Biochemistry (Mosc). 94, 12914-12919
	55	Knapp et al., 2002, <i>Tetrahedron Lett.,</i> 43, 6075-6078
	56	Konecny et al., 1982, in Enzyme Engineering, Vol. 6:pp 91-96, Plenum Press
	57	Lengeler, 1980, Mol. Gen. Genet., 179, 49-54
	58	Leriche et al., 1996, <i>J. Am. Chem. Soc.</i> , 118, 1797-1798
	59	Leriche et al., 1997, Eur. J. Biochem., 245, 418-422
	60	Marie et al., 1992, Mol. Microbiol., 6, 843-851
	61	Martinou et al., 1995, Carbohydr. Res., 273, 235-242
	62	McKnight et al., 1992, J. Biol. Chem., 267, 25208-25212
	63	Mengin-Lecreulx et al., 1996, The Journal of Biological Chemistry, 271, 32-39
	64	Miclett et al., 2001, The Journal of Biological Chemistry, 37, 34840-34846
	65	Milewski, 1993, Biochimistry et. Biophys Acta, 1161, 279-284
	66	Mio et al., 1999, J. Biol. Chem., 274, 424-429
	67	Miyazaki et al., 1979, Chem. Pharm. Bull., 27, 532-535
	68	Mudri et al., 1992, J. Biol. Chem., 267, 25208-25212
	69	Mukhija et al., 1996, The Journal of Biological Chemistry, 271, 14819-14824
	70	Novikov, 1999, Russian J. Appl. Chem., 72, 156-161
on	71	Novikov et al., 1997, Russian J. Appl. Chem., 70, 1467-1470

EXAMINER DATE CONSIDERED 7/31/06	
----------------------------------	--

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY. DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
APPLICANT DENG et al.	
FILING DATE	GROUPART 1652

July 1, 2003

m 72		Obmolova et al., 1994, <i>J. Mol. Biol.</i> , 242, 703-705					
	73	Oppon et al., 1998, <i>J. Bacteriol.</i> , 180 , 3007-3012					
-	74	O'Shannessy et al., 1993, <i>Anal. Biochem.</i> , 212 , 457-468					
	75	D'Shea et al., 1993, Anal. Chem., 65, 948-951					
	76	Oyaizu, 1986, <i>Japanese J. Nutr.</i> , 44, 307-315					
	77	Oyaizu, 1988, Nippon Shikuhin Kogyo Gakkaishi, 35, 771-775					
	78	Oyaizu, 1988, Nippon Shikuhin Kogyo Gakkaishi, 35, 846-850					
	79	Penneff et al., 2001, The Journal of Biological Chemistry, 276, 16328-16334					
	80	Peri et al., 1990, Biochemical and Cell Biology, 68, 123-137					
	81	Plumbridge, 1987, <i>Mol. Gen. Genet.</i> , 209 , 618-620					
	82	Plumbridge, 1998, <i>Mol. Microbiol.</i> , 27, 369-380					
	83	Plumbridge, 2001, Nucleic Acids Res., 29, 506-514					
	84	Plumbridge et al., 1999, <i>J. Bacteriol.</i> , 181 , 47-54					
	85	lumbridge, 1989, <i>Mol. Microbiol.</i> , 3 , 505-515					
	86	Plumbridge, 1990, <i>J. Bacteriol.</i> , 172 , 2728-2735					
	87	Plumbridge, 1991, <i>Mol. Microbiol.</i> , 5 , 2053-2062					
	88	Plumbridge, 1992, <i>J. Gen. Microbiol.,</i> 138, 1011-1017					
	89	Plumbridge et al., 1993, <i>J. Bacteriol.</i> , 175 , 4951-4956					
	90	Pompeo et al., 2001, <i>J. Biol. Chem.</i> , 276, 3833-3839					
	91	Pradel et al., 1988, <i>J. Bacteriol.</i> , 170, 4916-4923					
	92	Roseman, 1957, <i>J. Biol. Chem.</i> , 226, 115-124					
	93	Rowley et al., 1991, <i>J. Bacteriol.</i> , 173 , 968-977					
	94	Sarvas, 1971, J. Bacteriol., 105, 467-471					
	95	Sashiwa et al., 2001, Chemistry Letters, 308-309					
	96	Sashiwa et al., 2001, Japanese Soc. Chitin Chitosan, 7, 257-260					
	97	Schuster et al., 1993, <i>Nature</i> , 365, 343-347					
	98	Shi and Xie 2002 Huaxue Shiki 24:93-94					
me	- 99	Shu 1998, Journal Agricultural of Food Chemistry, 46, 1129-1131					

	EXAMINER ###	DATE CONSIDERED	7/31/06
--	--------------	-----------------	---------

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY. DOCKET NO. 3161-18-2	SERIAL NO. 10/612,779
APPLICANT DENG et al.	
FILING DATE July 1, 2003	GROUPART 1652

on	100	Smith et al., 1996, <i>J. Bacteriol.</i> , 178, 2320-2327					
	101	Souza et al., 1997, Archives of Biochemistry & Biophysics, 340, 338-346					
	102	Sumoto et al., 1991, <i>Chem. Pharm. Bull.</i> , 39 , 792-794					
	103	Teplyakov et al., 1998, <i>Structure</i> , 6, 1047-1055					
	104	Vogler et al., 1989, <i>J. Bacteriol.</i> , 171, 6586-6592					
	105	Vogler et al., 1989, <i>Mol. Gen. Genet.</i> , 219, 97-105					
	106	Walker et al., 1984, <i>Biochem. J.</i> , 224, 799-815					
	107	Wanner, 1996, in Escherichia coli and Salmonella: Cellular and Molecular Biology, Vol. 1:pp. 1357-1381, ASM Press					
	108	Wanner, 1990, in The Molecular Basis of Bacterial Metabolism, Vol. 41:pp. 152-163, Springer-Verlag					
	109	Wanner, 1993, J. Cell. Biochem., 51, 47-54					
	110	Natanabe et al., 1990, <i>Agric. Biol. Chem.</i> , 54 , 519-525					
	111	Natzele et al., 1989, <i>J. Biol. Chem.,</i> 264, 8753-8758					
	112	White, 1968, Biochem. J., 106, 847-858					
	113	White et al., 1967, Biochem. J., 105, 121-125					
	114	Wolfe et al., 1956, Arch. Biochem. Biophys., 64, 489-497					
	115	Wu et al., 1971, J. Bacteriol., 105, 455-466					
	116	Xin-Yi et al., 2001, Journal of Changde Teachers University (Natural Science Edition), 13, 63-65					
	117	Yamano et al., 1997, Biosci. Biotechnol. Biochem., 61, 1349-1353					
	118	Yamano et al., 1996, Biosci. Biotechnol. Biochem., 60, 1320-1323					
	119_	Yamano et al., 1994, Biosci. Biotechnol. Biochem., 58, 193-195					
	120	Yamano et al., 2000, Mar. Biotechnol., 2, 57-64					
	121	Zalkin, 1985, Methods of Enzymology, 113, 278-281					
on	122	Zhang et al., 2003, J. Cap. Elec.& Microchip Tech pp. 33-37					

EXAMINER DATE CONSIDERED 7/3/ 00

	VI. 4 - 4 - 4		12.	Complete if Known		
	titute for form); ja 4.	3 0) MB (2)	Application Number	10/612,779	
INF	ORMAT	TION DÉSC NT BY ARI	LOSURE	Filing Date	July 1, 2003	
ST	ATEME	NT BY ARI	TRADLIS	First Named Inventor	Deng	
•			Cristian (1)	Art Unit	1652	
				Examiner Name	RAMIREZ	
Sheet	1	of	1	Attorney Docket Number	3161-18-2	

			U.S. PATENT DO	CUMENTS				
Examiner Initials*	Cite No.				Document Number Number-kind Code 2 (TAncon)	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-						
		US-						
		US-						
		US-						
		US-						
_		US-						
		US-						
		US-						
		US-						
		US-						

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1			eign Patent Document Number*: Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶	
on		PCF	·	WO 97/31121	08/28/1997	Univ. British Columbia	· · · · · · · · · · · · · · · · · · ·	\top	
		WIPO	-						
			-					1	
							-	1	
			-					1	
			·				-	\top	
								T	

· -	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)						
Examiner Initials*	Cite No.1		7				
-							

Examiner		21/100
	l Date	1//2//////
Sigature	Considered	1/3//00
	00/13/08/60	

^{*}EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.